QC ABSTRACT

NAME OF WORK: Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M15)	Compressive Strength(7days and 28days)	1 Set		2	2

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-02-28-16** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.
Agency	:	Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W O/50/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-02-28-16** **Date: 05-01-23**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/50/2022-23

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 02-01-23

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-02-28-16** **Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.
Agency	:	Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/50/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	2499	2688	53.8	46.2	25-55
4	4.75 mm	2011	4699	94.0	6.0	0-10
5	Pan	301	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-02-28-16** **Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.
Agency	:	Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/50/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-28-16** **Date: 27/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.
Agency	:	Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/50/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Customer ID	:	Flooring Concrete for Toilet
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	27/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete for Toilet	M15	20/01/2023	27/01/2023	150.20 X 150.67 X 150.40	22630	8.710	275.3	12.2	12.4
2	Flooring Concrete for Toilet	M15	20/01/2023	27/01/2023	149.29 X 151.27 X 151.83	22583	8.667	281.4	12.5	
3	Flooring Concrete for Toilet	M15	20/01/2023	27/01/2023	150.73 X 150.09 X 149.00	22623	8.778	284.7	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-28-16** **Date: 17/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Renovation to Samudhaya Bhavana Building at Nagenahalli & Kenchenahalli in Chowdeshwari ward no-02 of Yelahanka Sub Division.
Agency	:	Sri Chethan P, No 53/23 5th Cross, Lawlrence layout, Veerannapalya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W O/50/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Customer ID	:	Flooring Concrete for Toilet
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete for Toilet	M15	20/01/2023	17/02/2023	150.58 X 149.95 X 149.01	22580	8.937	398.1	17.6	17.8
2	Flooring Concrete for Toilet	M15	20/01/2023	17/02/2023	151.96 X 149.24 X 150.34	22680	8.129	404.6	17.8	
3	Flooring Concrete for Toilet	M15	20/01/2023	17/02/2023	151.67 X 150.09 X 151.82	22764	8.602	407.6	17.9	

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